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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/731,404	12/10/2003	Myung-Hoon Sunwoo	1349.1363	3912
21171 STAAS & HAI	7590 09/14/200 LSEY LLP	7	EXAMINER	
SUITE 700	DV AVENIJE NIW		MAI, TAN V	
WASHINGTO	RK AVENUE, N.W. N, DC 20005		ART UNIT	PAPER NUMBER
			· 2193	
			MAIL DATE	DELIVERY MODE
	•		09/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
_	10/731,404	SUNWOO, MYUNG-HOON				
Office Action Summary	Examiner	Art Unit				
	Tan V. Mai	2193				
The MAILING DATE of this communication Period for Reply	n appears on the cover shee	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMU FR 1.136(a). In no event, however, mar on. period will apply and will expire SIX (6) N statute, cause the application to becom	NICATION. y a reply be timely filed MONTHS from the mailing date of this communication. e ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	09 July 2007.					
	<u> </u>					
3) Since this application is in condition for al	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice un	nder <i>Ex parte Quayle</i> , 1935 (C.D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-13</u> is/are pending in the applic	ation					
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-3 and 7-11</u> is/are allowed.						
6)⊠ Claim(s) <u>4-6,12 and 13</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction a	and/or election requirement.					
Application Papers	•					
9)☐ The specification is objected to by the Exa	aminer					
10) The drawing(s) filed on is/are: a)		to by the Examiner.				
Applicant may not request that any objection to						
Replacement drawing sheet(s) including the c	-, ,					
11)☐ The oath or declaration is objected to by t						
Priority under 35 U.S.C. § 119		·				
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:	oreign priority under 35 U.S.(C. § 119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the						
application from the International B	Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for	a list of the certified copies	not received.				
•	•					
•						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date 6) Other:						

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1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 4-6 and 12-13 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As per claims 4-6, rejection ground continue to be those set forth in the previous office action (Paper dated 4/11/07, paragraph 2).

New claims 12-13 recite a computer-readable storage controlling by a computer for performing a mathematical function.

"[t]o satisfy section 101 requirements, the claim must be for a practical application of the Sec. 101 judicial exception, which can be identified in various ways:

- . The claimed invention "transforms" an article or physical object to a different state or thing.
- . The claimed invention otherwise produces a useful, concrete and tangible result,...".

See "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" OG Date: 22 November 2005.

In order for claims to be statutory, claims must include a practical application with a concrete, useful, and tangible result. However, claims 12-13 merely disclose elements / steps of performing mathematical function without disclosing a practical application with a concrete, useful, and tangible result, as they are pre-emptive in any application. Therefore, claims 12-13 are directed to non-statutory subject matter.

3. Applicants' arguments filed on 7/9/07 have been fully considered but they are not persuasive.

Applicant, in his remarks, argues that:

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"[a]pplicant submits that claims 4-6 meet the requirements of 35 U.S.C. § 101. By way of example and not limitation, claim 4 recites 'generating an offset address of butterfly input/output data to read data and write an operated result in a data memory.' Such writing of an operated result in a data memory clearly illustrates that claims 4-6 meet the requirements of 35 U.S.C. § 101. Accordingly, it is respectfully requested that the Examiner's rejection be withdrawn."

(emphasis added).

With respect to the arguments, the examiner carefully reviews Applicant's specification and claimed invention. It is noted that applicants haven't pointed out how/why the claim produces a **useful**, **concrete**, **and tangible result**. If the claim as a whole is reasonably interpreted as just solving a mathematical algorithm rather than reciting a **practical application** of the algorithm which produces a useful, concrete and tangible result, then it would be non-statutory. In order for claims to be statutory, claims must include a practical application with a concrete, useful, and tangible result.

However, claims 4-6 and 12-13 merely disclose steps for performing mathematical function without disclosing a **practical application with a concrete**, **useful**, **and tangible result**, **as they are pre-emptive in any application**. Therefore, claims 4-6 and 12-13 are directed to non-statutory subject matter. Therefore, the rejection [of claims 4-6] is still proper.

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tan V. Mai whose telephone number is (571) 272-3726.

The examiner can normally be reached on Mon-Wed and Fri. from 9:30am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Meng-Ai An, can be reached on (571) 272-3756. The fax phone number for

the organization where this application or proceeding is assigned is:

Official

(571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Tan V. Mai

Primary Examiner